

REACH 1

T36S-R14W-S26

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0	Constraining Terraces	0
Moderate V-shape	100	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 1.3 range: 1.0-1.5

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	0		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	323	1,811	0
Secondary	47	107	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.0	Width	14.5	15.5	17.6
Depth	0.38	Height	0.7	1.4	1.4
		W:D ratio	24.9	Entrenchment	1.1

Stream Flow Type: LF Water Temp: 19.0-19.0°C  
Avg. Unit Gradient: 2.0% Habitat Units/100m: 4.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	MT
Riparian Vegetation:	D30	M50

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	4%	Reach avg: 81%
Undercut Banks	0%	Range: 64-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	105	32.5
Volume (m <sup>3</sup> )	144	44.7
Key pieces ( $\geq 10m \times 0.6m$ )	8	2.5

HABITAT UNIT SUMMARY

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
DRY UNITS	1	47	2.3	0.45	107	0	0	20	30	30	20	0
GLIDE	1	13	5.7	0.25	72	1	5	45	30	15	5	0
POOL-LATERAL SCOUR	6	88	5.0	0.62	456	47	1	27	31	23	18	0
RAPID/BOULDERS	3	55	5.2	0.20	278	112	0	15	28	32	25	0
RIFFLE	5	168	5.4	0.22	1,005	117	0	15	31	30	24	0
<b>Total:</b>	<b>16</b>	<b>370</b>	<b>5.0</b>	<b>0.38</b>	<b>1,918</b>	<b>277</b>	<b>Avg: 1</b>	<b>22</b>	<b>30</b>	<b>27</b>	<b>21</b>	<b>0</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	6	88	5.0	0.62	456	23.76	47	10.3
Glides	1	13	5.7	0.25	72	3.77	1	1.4
Riffles	5	168	5.4	0.22	1,005	52.40	117	11.6
Rapids	3	55	5.2	0.20	278	14.49	112	40.3
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	1	47	2.3	0.45	107	5.58	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	6	16.2
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	4	10.8
Pool Frequency (channel widths/pool):	4.2	
Residual pool depth (avg)	0.49m	

STREAM SUMMARY

N.F. SAUNDERS CREEK (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
16	370	5.0	0.38	1,918	1	22	30	27	21	0	277

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	456	23.8
Backwater Pools	0	0.0
Glide	72	3.8
Riffle	1,005	52.4
Rapid	278	14.5
Cascade	0	0.0
Step	0	0.0
Dry	107	5.6

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (2 transects)

Total hardwoods/1000 ft	975
Total conifers/1000 ft	30
Total conifers >20" dbh/1000 ft	30
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	2.5	0.0	3.5	0.0	3.0	0.0	9.0
15-30cm	0.0	2.5	0.0	1.5	0.0	1.5	0.0	5.5
30-50cm	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5
50-90cm	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5
>90cm	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5
Total/100m <sup>2</sup>	0.5	6.0	0.0	5.5	0.0	4.5	0.2	5.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	85		78		71	
Shrub cover	36		34		19	
Grass/forb cover	48		43		48	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	50		100		100	
High terrace	50		0		0	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	46		54		49	

Summary of Riparian Zone (0-30m) for all reaches ( 2 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	975
Total conifers/1000 ft	30
Total conifers >20" dbh/1000 ft	30

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	9.0
15-30cm	0.0	5.5
30-50cm	0.0	0.5
50-90cm	0.5	0.5
>90cm	0.0	0.5

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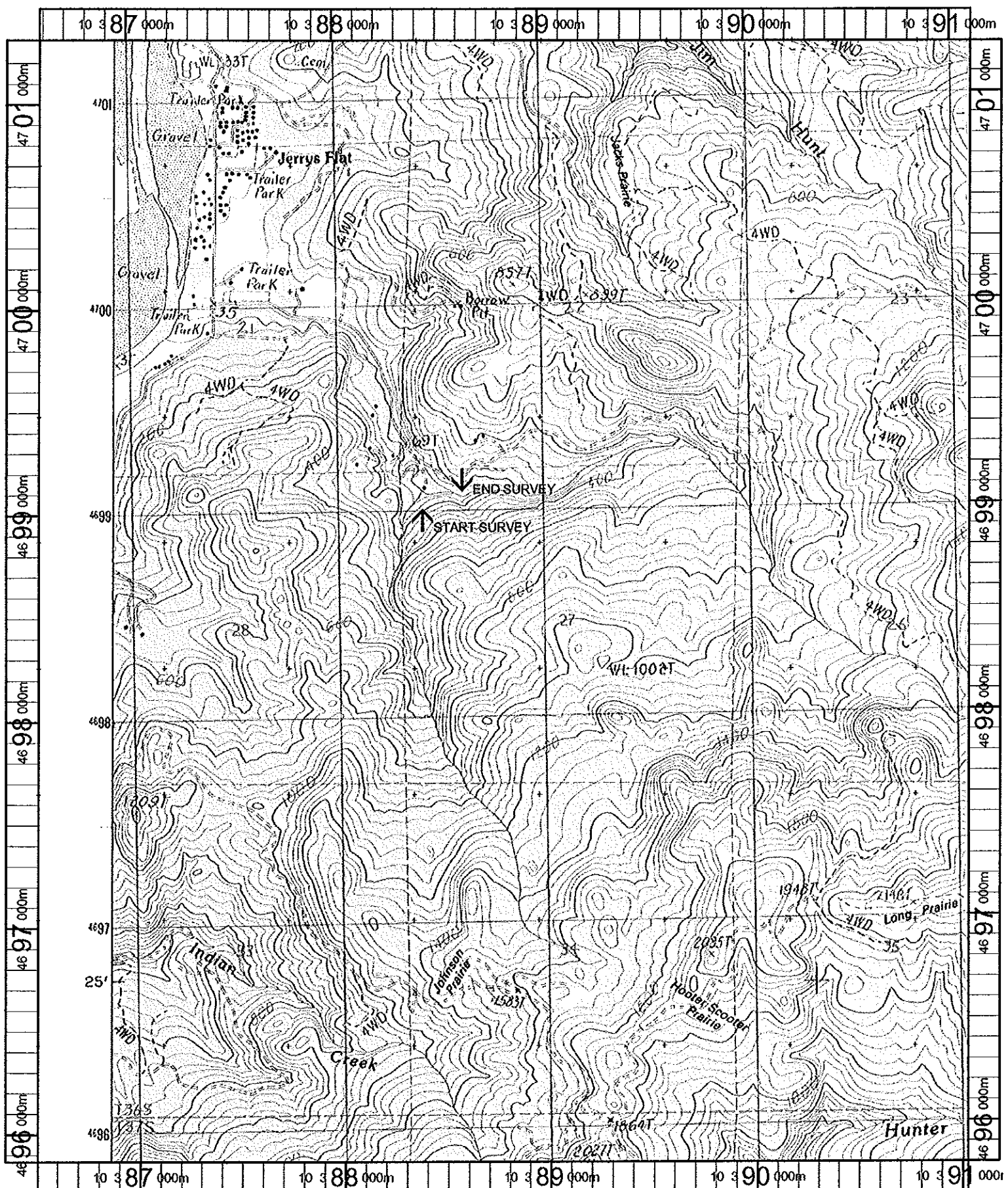
RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
8	LF	1	HT	0.0	70	15	70	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	TRANSECT BELOW DRAW
8	LF	2	HS	60.0	50	45	30	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	ALDER, MYRTLE
8	LF	3	HS	50.0	30	15	20	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	MYRTLE
8	RT	1	HT	0.0	95	10	70	Conifer	0	0	0	1	0	
								Hardwood	0	0	1	1	0	BIG LEAF MAPLE
8	RT	2	HS	40.0	60	50	50	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	VINE MAPLE
8	RT	3	HS	40.0	55	40	60	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	VINE MAPLE
15	LF	1	HS	65.0	80	100	0	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	WILLOW
15	LF	2	HS	65.0	100	30	20	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
15	LF	3	HS	65.0	100	10	40	Conifer	0	0	0	0	0	
								Hardwood	0	3	0	0	0	ALDER
15	RT	1	HS	120.0	95	20	50	Conifer	0	0	0	0	0	
								Hardwood	5	1	0	0	0	VINE MAPLE, ALDER
15	RT	2	HS	50.0	100	10	70	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	1	
15	RT	3	HS	40.0	100	10	70	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	ALDER



Name: SIGNAL BUTTES  
 Date: 11/8/100  
 Scale: 1 Inch equals 2000 feet

Location: 10 388703 E 4698540 N  
 Caption: NORTH FORK SAUNDERS CREEK RESTORATION SITE - ROGUE BASIN